

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re th	e application of)	
	.)	Examiner: Not yet assigned
	Mark Hernandez et al.	
)	Art Unit: Not yet assigned
Serial 1	No: 10/627,947	
		Attorney Docket: MJ-1
Filed:	July 25, 2003	
		Date: January 28, 2004
For:	REMOVING METALS FROM SOLUTION USING)	•
	METAL BINDING COMPOUNDS AND)	
	SORBENTS THEREFOR)	^
	CATE OF MAILING I hereby certify that this correspondence is being de	
envelope	addressed to: Commissioner of Patents and Trademarks, Washington, D.C.	Signed:
		Michael Fritzkau
Accieta	nt Commissioner for Patents	/ /

INFORMATION DISCLOSURE STATEMENT

Sir:

Washington, D.C. 20231

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited on that form. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

X 37 C.F.R. §1.97(b).

37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

A certification pursuant to 37 C.F.R. §1.97(e) or

A check for § 180.00 for the fee under 37 C.F.R. § 1.17(p).

37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

(1) A certification pursuant to 37 C.F.R. §1.97(e);

(2) A check for \$ 180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information

Disclosure Statement under 37 C.F.R. §1.97(d).

Respectfully subshitted,

Michael Pritzkau Registration No. 37,93



PTO/SB/08A (Modified)

Information Disclosure Statement By Applicant Complete if known

Application Number 10/627,947 Filing Date 7/25/2003

First Named Inventor Mark Hernandez
Art Unit Not yet assigned

Examiner Name Not you
Attorney Docket Number MJ-1

Not yet assigned

Sheet 1 of 2 Attorney Docket Number M

U.S. Patent Documents

Examiner Initial	Cite No.	Document No.	Publication Date	Patentee	Pages, columns, lines, where relevant passages or relevant figures appear
	Α	4,536,189	August 20, 1985	Sung	
-	В	5,500,126	March 19, 1996	Fries	
	С	3,870,033	March 11, 1975	Faylor et al.	
	D	5,645,730	July 8, 1997	Malachosky et al.	
	E	5,112,428	May 12, 1992	Correa et al.	

Other Documents

	,	Other Documents
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	F	C.P. Huang and D.W. Blankenship, "The Removal of Mercury(II) from Dilute Aqueous Solution by Activated
		Carbon," Water Res., Vol. 18., No. 1 (1984)
	G	A. Netzer and D.E. Hughes, "Adsorption of Copper, Lead and Cobalt by Activated Carbon," Water Res., Vol. 18, No. 8 (1984)
	H	B.E. Reed, "Identification of Removal Mechanisms for Lead in Granular Activated Carbon (GAC) Columns, Separation Science and Technology," 30(1), pp. 101-116 (1995)
	I	Andrzej Wilczak and Thomas Keinath, "Kinetics of Sorption and Desorption of Copper(II) and Lead(II) on Activated Carbon, Water Environment Research," Vol. 65, pp. 238-244 (1993)
	J	Brian E. Reed and Sujith Kumar Nonavinakere, "Metal Adsorption by Activated Carbon: Effect of Complexing Ligands, Competing Adsorbates, Ionic Strength, and Background Electrolyte," Separation Science and Technology, 27(14), pp. 1985-2000 (1992)
	K	Alan J. Rubin and Danny L. Mercer, "Effect of Complexation on the Adsorption of Cadmium by Activated Carbon," Separation Science and Technology, 22(5), pp. 1359-1381 (1987)
	L	Margaret A. Shay and James E. Etzel, "Treatment of Metal-Containing Wastewaters by Carbon Adsorption of Metal-Chelate Complexes," 46 th Purdue Industrial Waste Conference Proceedings (1992)
	M	John V. Accashian, et al., "Aerobic Growth on Nitroglycerin as the Sole Carbon, Nitrogen, and Energy Source by a Mixed Bacterial Culture," Applied and Environmental Microbiology, pp. 3300-3304 (Sept. 1998)
	N	Devon A. Cancilla et al., "Detection of Aircraft Deicing/Antilicing Fluid Additives in a Perched Water Monitoring Well at an International Airport," Environ. Sci. Technol. 32, pp. 3834-3835 (1998)
	0	C.B. Coburn, et al., "Environmental effects of engine coolant additives" (Abstract), Chemical Abstracts, Vol. 130, No. 22, 300765m, pp. 1052 (1999)
	P	Donald E. DeFord, et al., "The determination of consecutive formation constants of complex ions from polarographic data," J. Am. Chem. Soc. 73, 5321 (1951)
	Q	Cyndee L. Gruden, et al., "Fate and toxicity of aircraft deicing fluid additives through anaerobic digestion," Water Environment Research, Vol. 73, No. 1, pp. 72-79 (January/February 2001)
	R	G. Heath, et al., "The use of differential pulse polarography for the determination of stability constants," Jnl. Electroanal. Chem., 84, pp 295-302 (1977)
	S	Dana W. Kolpin, et al., "Pharmaceuticals, hormones and other organic wastewater contaminants in U.S. streams, 1999-2000: A national reconnaissance," Environmental Sci. and Technol., Vol. 36, No. 6 (2002)
	T	E.P. Parry, et al., "Evaluation of Analytical Pulse Polarography," Analytical Chemistry, Vol. 37, No. 13, pp. 1634-1637 (1965)
	Ü	Mark Hernandez, "Investigation of selected potential environmental contaminants: benzotriazoles," EPA 560/2-77-001 (1977)
	V	Ido Leden, "Einige potentiometrche messungen zur bestimmung de komplexionen in cadmiumsalzlosungen," Eingegangen am 24.1.41, pp. 160-181

Examiner	Date	
Signature	Considered	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08A (Modified)

Information Disclosure Statement By Applicant

Complete if known

Application Number 10/627,947 Filing Date 7/25/2003

First Named Inventor

Mark Hernandez

Art Unit

Not yet assigned

Examiner Name

Not yet assigned

Sheet 2 of 2 Attorney Docket Number

MJ-1

Other Documents (contd)

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Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	W	Jefferey Cornell, "The environmental impact of 4(5)-Methylbenzotriazole from aircraft deicing operations," University of Colorado (2002)
	Х	Arup K. SenGupta (editor), "Environmental separation of heavy metals," chapter 7 by Brian E. Reed, "Removal of heavy metals by activated carbon," CRC Press LLC (2002)
	Y	D. R. Crow, "Polarography of metal complexes," Academic Press (1969)
	Z	Stanton B. Smith, "Trace metal removal by activated carbon," Princeton University (1973)
	AA T. N. Chen, "Treatment of zinc industrial wastewater by combined chemical precipitation and activated carbon adsorption," 24 th Mid-Atlantic Industrial Wastewater Conference, pp. 120-134 (1992)	

Examiner	Date	
Signature	Considered	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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